

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/42887

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07D 315/00 US CL : 549/268 According to International Patent Classification (IPC) or to both national classification and IPC | | |
|---|---|---|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 549/268 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | YANG, Z. A Concise Route to Benzofused Macrolactones via Ynolides: Cycloproparadicicol. J.A.C.S. July 2003, Vol 125, pages 9602-9603, especially page 9603. | 10 |
| X, P | YAMAMOTO, K. Total Synthesis as a Resource in the Discovery of Potentially Valuable Antitumor Agents: Cycloproparadicicol. Angew. Chem. Int. Ed. 2003. No. 11, pages 1280-1284, especially page 1282. | 10 |
| X, P | YANG, Z. New Efficient Synthesis of Resorcinylic Macrolides via Ynolides: Establishment of Cycloproparadicicol as Synthetically Feasible Preclinical Anticancer Agent Based on Hsp90 as the Target. June 2004, , pages 7881-7889, especially page 7886. | 10 |
| Y | US 6,239,168 (INO et al) 29 May 2001 (29.05.2001), Column 56, lines 1-10, Claim 1. | 10 |
| Y | US 5,977,165 (AGATSUMA et al) 2 November 1999 (02.11.1999), Column 27, lines 1-10, Claim 1. | 10 |
| Y | US 5,650,430 (SUGIMURA et al) 22 July 1997 (22.07.1999), Column 72, lines 25-35, Claim 1. | 10 |
| Y | US 4,228,079 (CALTON) 14 October 1980 (14.10.1980), Column 4, lines 52-60, Claim 1. | 10 |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | |
| * Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | |
| Date of the actual completion of the international search 24 May 2005 (24.05.2005) | | Date of mailing of the international search report 08 JUN 2005 |
| Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 | | Authorized officer Susannah Lee Telephone No. 571-272-6098 |

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/42887**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
|------------|--|----------------------|
| Y | US 3,373,039 (HODGE et al) 12 March 1968 (12.03.1968), Column 8, lines 22-30, Claim 1. | 10 |

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-9 and 11-38
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Continuation of Box II Reason 2:

The numerous variables, e.g., A, B, C, D, E, G, J, K, L, X, Z, R1, R2, R3, R4 and their voluminous, complex meanings and their virtual incomprehensible permutations and combinations make it impossible to determine the full scope and complete meaning of the claimed subject matter. As presented, the claimed subject matter cannot be regarded as being a clear and concise description for which protection is sought and as such the listed claims do not comply with the requirements of PCT Article 6. Thus it is impossible to form a meaningful written opinion on these claims. A written opinion will be provided for the first discernable invention, which is Claim 10, limited to compounds containing the same core.